



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
HYUNDAI 2016HYUNDAI

Component
Gasoline Engine

Fluid
NOT GIVEN (--- LTR)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

▲ Wear

Silver ppm levels are marginal. All other component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0848172	---	---
Sample Date	Client Info		24 Aug 2023	---	---
Machine Age	kms	Client Info	110000	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			MARGINAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >150	11	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >5	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >2	▲ 2	---	---
Aluminum	ppm	ASTM D5185(m) >40	8	---	---
Lead	ppm	ASTM D5185(m) >50	0	---	---
Copper	ppm	ASTM D5185(m) >155	2	---	---
Tin	ppm	ASTM D5185(m) >10	1	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	170	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	68	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	486	---	---
Calcium	ppm	ASTM D5185(m)	1190	---	---
Phosphorus	ppm	ASTM D5185(m)	691	---	---
Zinc	ppm	ASTM D5185(m)	741	---	---
Sulfur	ppm	ASTM D5185(m)	2313	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	11	---	---
Sodium	ppm	ASTM D5185(m) >400	2	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Fuel	%	ASTM D7593* >4.0	1.4	---	---

INFRA-RED

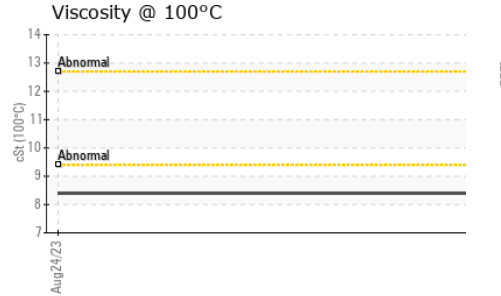
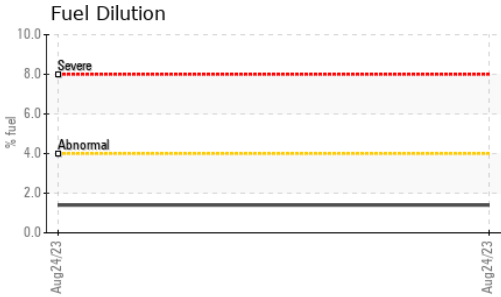
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624* >20	5.5	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	16.1	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	8.8	---	---



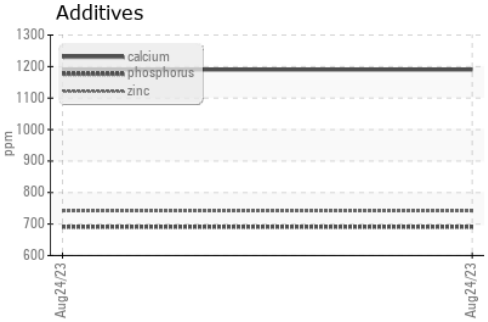
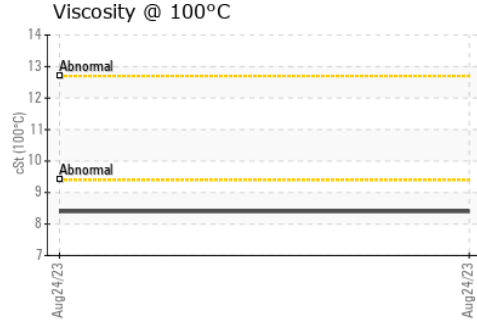
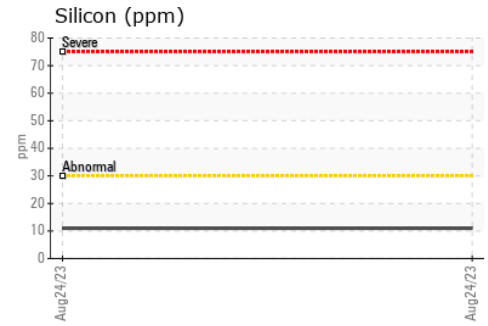
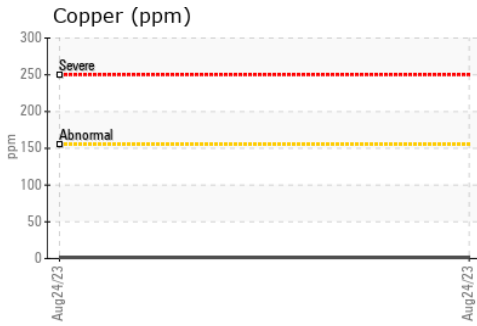
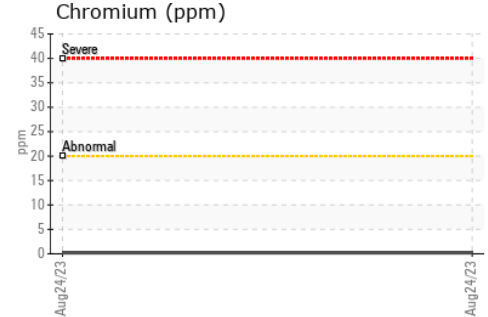
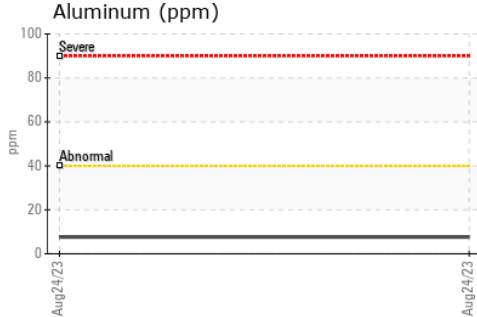
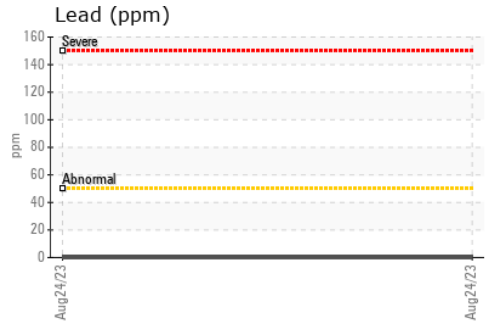
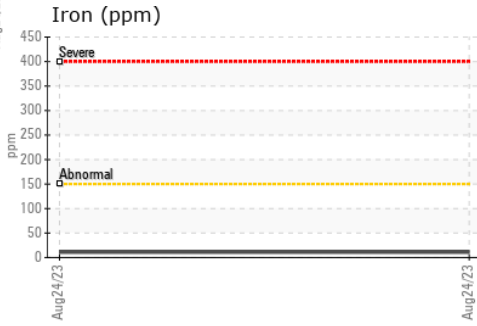
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	8.4	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Transport Canada-Motor Vehicle Regulations Enforcement
Sample No. : WC0848172 **Received** : 25 Aug 2023 80 Rue Noel
Lab Number : 02578448 **Diagnosed** : 28 Aug 2023 Gatineau, QC
Unique Number : 5631508 **Diagnostician** : Kevin Marson CA J8Z 0A1
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Carolanne Marenger
carolanne.marenger@tc.gc.ca

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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