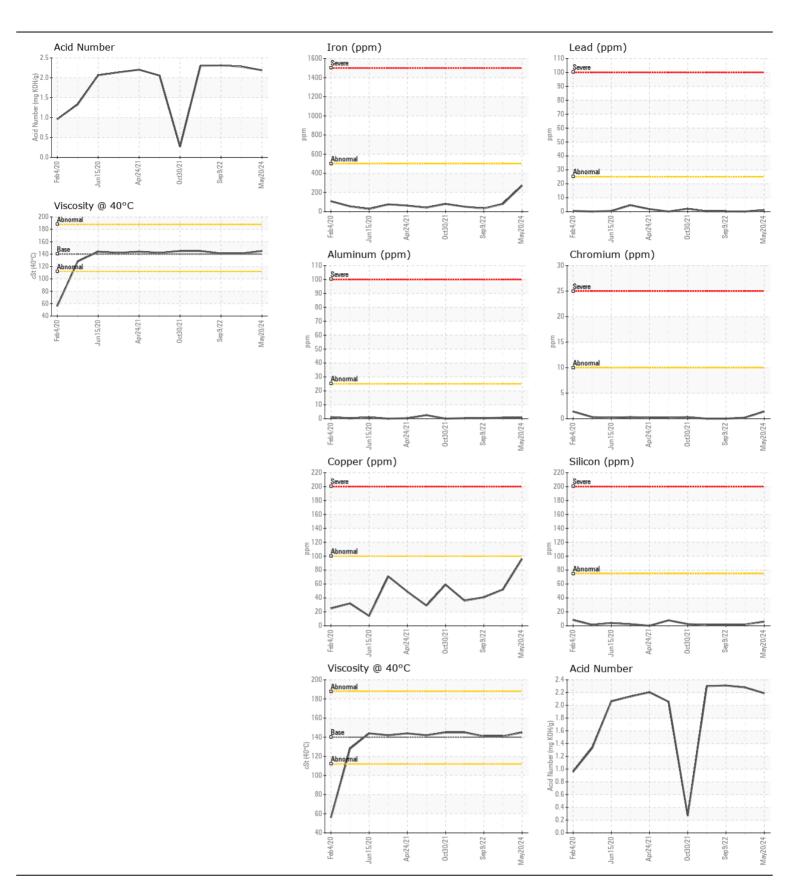
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

HYUNDAI L-4 - HYUNDAI

Rear Differential

GEAR OIL LS 80W90 (16 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0002091	LP0000719	WC072153
	Sample Date		Client Info		20 May 2024	01 Jul 2023	09 Sep 202
	Machine Age	hrs	Client Info		11406	9221	7025
	Oil Age	hrs	Client Info		1185	2196	2009
	Filter Age	hrs	Client Info		1185	2196	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	271	80	33
	Chromium	ppm	ASTM D5185m	>10	1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
	Lead	ppm	ASTM D5185m	>25	1	0	<1
	Copper	ppm	ASTM D5185m	>100	96	52	41
	Tin	ppm	ASTM D5185m	>10	5	2	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 75	6	2	1
	Potassium	ppm	ASTM D5185m		<1	1	0
There is no indication of any contamination in the oil.	Water	ppm		>.2	NEG	NEG	NEG
	Silt	coalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	150	14	25	36
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		<1	1	<1
	Manganese	ppm	ASTM D5185m		5	1	<1
	Magnesium	ppm	ASTM D5185m		2	12	5
	Calcium	ppm	ASTM D5185m	70	25	58	28
	Phosphorus	ppm	ASTM D5185m		662	706	649
	Zinc	ppm	ASTM D5185m	50	125	45	23
	Sulfur	ppm	ASTM D5185m	20000	27105	30253	26250
	Acid Number (AN)	mg KOH/g	ASTM D8045		2.19	2.28	2.31
	Visc @ 40°C	cSt	ASTM D445	140	145	141	141 MLWALNO







Certificate L2367

Laboratory Sample No.

: LP0002091 Lab Number : 06195980 Unique Number: 11058103 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 02 Jun 2024

Diagnosed

: 02 Jun 2024 - Don Baldridge

US 02081 Contact: PAUL BECKMAN pbeckman@smlorusso.com T: (508)668-2603

S.M. LORUSSO & SONS

221 NORFOLK ST.

WALPOLE, MA

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

F: (508)660-0232 Contact/Location: PAUL BECKMAN - SMLWALNC